

### **Abstract**

Noise power is measured within one or more designated frequency bands of an applied signal. The measurement includes frequency translating the applied signal by a set  
5 of equally spaced frequencies to form a corresponding set of intermediate frequency signals, measuring the noise in at least two measurement bands of each of the intermediate frequency signals that are separated by the frequency spacing of the equally spaced frequencies, and determining the noise power in the designated frequency band of the applied signal based on the noise measurements.